

INDEX

NAMES OF CONTRIBUTORS ARE PRINTED IN SMALL CAPITALS.

- Alcoholized Mammals, Hereditary Transmission of Degeneracy and Deformities by the Descendants of, CHARLES R. STOCKARD and GEORGE PAPANICOLAOU, 65, 144
- Algæ, Red, Life Histories in, BRADLEY MOORE DAVIS, 502
- ALLARD, H. A., The Status of Fowler's Toad, 757
- Angiosperms, Hybridism and the Rate of Evolution in, EDWARD C. JEFFREY, 129
- BAGG, HALSEY J., Individual Differences and Family Resemblances in Animal Behavior, 222
- Barnacle, *Conchoderma virgatum*, attached to a Fish, *Diodon hystrix*, W. J. CROZIER, 636
- BARTLETT, HARLEY HARRIS, The Status of the Mutation Theory with especial reference to *Enothera*, 513
- Beans, Inheritance of Eye Pattern in and its Relation to Type of Vine, FRANK M. SURFACE, 577
- Bees, The Eugster Gynandromorph, T. H. MORGAN, 39
- Behavior, Animal, Individual Differences and Family Resemblances in, HALSEY J. BAGG, 222; Genetic, of Mice of the Color Varieties "Black-and-Tan" and "Red," L. C. DUNN, 664
- Blending and Mendelian Inheritance, W. E. CASTLE, 321
- Butterflies, Poulton on Mimicry in, JOHN H. GEROULD, 184; The Inheritance of Seasonal Polymorphism in, JOHN H. GEROULD, 310
- Cacti, Distribution of, with special reference to the Role played by the Root Response to Soil Temperature and Soil Moisture, W. A. CANNON, 435
- CALKINS, GARY N., General Biology of the Protozoan Life Cycle, 257
- CANNON, W. A., Distribution of the Cacti with special reference to the Role played by the Root Response to Soil Temperature and Soil Moisture, 435
- CASTLE, W. E., Variability under Inbreeding and Crossbreeding, 178; Can Selection cause Genetic Change?, 248; New Light on Blending and Mendelian Inheritance, 321; Tables of Linkage Intensities, 575
- Cataract, Congenital, Inheritance of, D. F. JONES and S. L. MASON, 119, 751; The Inheritance of Congenital, C. H. DANFORTH, 442
- Cell, Evolution of the, E. A. MINCHIN, 5, 106, 271
- Character, Systematic and Phylogenetic, The Shape of the Sternum in Scorpions as a, ALEXANDER PETRUNKEVITCH, 600
- Chin, Evolution of the, T. T. WATERMAN, 237
- Chromosome Studies on the Diptera, *Drosophilidæ*, CHARLES W. METZ, 587
- Color, Factor, Pink-eyed White Mice carrying the, J. A. DETLEFSON, 46; Mutations in Mice, The Occurrence of Three Recognized, C. C. LITTLE, 335; Varieties, "Black-and-Tan" and "Red" of Mice, The Genetic Behavior of, L. C. DUNN, 664
- Correlation, and Contingency, An Outline of Current Progress in the Theory of, J. ARTHUR HARRIS, 53; Variation and Inheritance of Fertility in the Mammals, J. ARTHUR HARRIS, 626
- Cows, Advanced Registry, Statistical Weighting for Age of, C. W. HOLDAWAY, 676
- Crossbreeding and Inbreeding, Variability under, W. E. CASTLE, 178
- Crossing-over, The Mechanism of, HERMANN J. MULLER, 193, 284, 350, 421
- CROZIER, W. J., On a Barnacle, *Conchoderma virgatum*, attached to a Fish, *Diodon hystrix*, 636
- DANFORTH, C. H., The Inheritance of Congenital Cataract, 442
- DAVENPORT, CHAS. B., The Form of Evolutionary Theory that Modern

- Genetical Research seems to favor, 449
- DAVIS, BRADLEY MOORE, Life Histories in the Red Algae, 502; (*Enothera neo-Lamarekiana*, Hybrid of *L. franciscana* Bartlett \times *O. biennis* Linnaeus, 688
- DETLEFSON, J. A., Pink-eyed White Mice, carrying the Color Factor, 46
- Diptera, Chromosome Studies on the, III, *Drosophilidæ*, CHARLES W. METZ, 587
- DUNN, L. C., The Genetic Behavior of Mice of the Color Varieties "Black-and-Tan" and "Red," 664
- Egg Production and Selection, H. D. GOODALE, 479
- EMERSON, R. A., The Calculation of Linkage Intensities, 411
- Epilobium, Hybrids of the Genus, R. HOLDEN, 243
- Evolution, of the Cell, E. A. MINCHIN, 5, 106, 271; the Rate of, and Hybridism in Angiosperms, EDWARD C. JEFFREY, 129; of the Chin, T. T. WATERMAN, 237; in Various Plant Types, Comparative Rapidity of, EDMUND W. SINNOTT, 466
- Evolutionary, Theory, The Form that Modern Genetical Research seems to favor, CHAS. B. DAVENPORT, 449; Significance of the Osmotic Pressure of the Blood, GEORGE G. SCOTT, 641
- EWING, H. E., *Trifolium pratense quinquefolium*, 370
- Family Resemblances and Individual Differences in Animal Behavior, HALSEY J. BAGG, 222
- Fasciation in Maize Kernels, T. K. WOLFE, 306
- Faunal Dispersal, FRANK E. LUTZ, 374
- Fecundity in the Domestic Fowl and the Selection Problem, RAYMOND PEARL, 89
- Fertility, Inheritance of, Variation and Correlation, in the Mammals, J. ARTHUR HARRIS, 626
- POWLER, HENRY W., Some Features of Ornamentation in the Killifishes or Toothed Minnows, 743
- Fowler's Toad, Status of, H. A. ALLARD, 757
- Gametogenesis in Plants, L. B. WALTON, 498
- GATES, R. RUGGLES, Huxley as a Mutationist, 126
- Genetic, Change, Can Selection cause it?, W. E. CASTLE, 248; Research, The Form of Evolutionary Theory that it seems to favor, CHAS. B. DAVENPORT, 449; Behavior of Mice of the Color Varieties "Black-and-Tan" and "Red," L. C. DUNN, 664
- GEROULD, JOHN H., Poulton on Mimicry in Butterflies, 184; The Inheritance of Seasonal Polymorphism in Butterflies, 310
- GOLDSCHMIDT, RICHARD, Experimental Intersexuality and the Sex Problem, 705
- GOODALE, H. D., Egg Production and Selection, 479
- HARRIS, J. ARTHUR, An Outline of Current Progress in the Theory of Correlation and Contingency, 53; Variation, Correlation and Inheritance of Fertility in the Mammals, 626; Statistical Studies of the Number of Nipples in the Mammals, 696
- Hibernation, Theories of, ANDREW T. RASMUSSEN, 609
- HOLDAWAY, C. W., Statistical Weighting for Age of Advanced Registry Cows, 676
- HOLDEN, R., Hybrids of the Genus *Epilobium*, 243
- Huxley as a Mutationist, R. RUGGLES GATES, 126
- Hybridism and the Rate of Evolution in Angiosperms, EDWARD C. JEFFREY, 129
- Hybrids of the Genus *Epilobium*, R. HOLDEN, 243
- Inbreeding and Crossbreeding, Variability under, W. E. CASTLE, 178
- Individual Differences and Family Resemblances in Animal Behavior, HALSEY J. BAGG, 222
- Inheritance, of Congenital Cataract, D. F. JONES and S. L. MASON, 119, 751; C. H. DANFORTH, 442; of Seasonal Polymorphism in Butterflies, JOHN H. GEROULD, 310; The Cause of the Belief in Use, A. L. KROEBER, 367; Studies in *Pisum*, ORLAND E. WHITE, 530; of Sex in the Grape, W. D. VALLEAU, 554; of Eye Pattern in Beans and its Relation to Type of Vine, FRANK M. SURFACE, 577; of Fertility, Variation and Correlation

- in the Mammals, J. ARTHUR HARRIS, 626
- Intersexuality, Experimental, and the Sex Problem, RICHARD GOLDSCHMIDT, 705
- JEFFREY, EDWARD C., Hybridism and the Rate of Evolution in Angiosperms, 129
- JONES, D. F., and S. L. MASON, Inheritance of Congenital Cataract, 119, 751
- KROEBER, A. L., The Cause of the Belief in Use Inheritance, 367
- Life, Cycle, Protozoan, Biology of the, GARY N. CALKINS, 257; Histories in the Red Algae, BRADLEY MOORE DAVIS, 502
- Linkage Intensities, Calculation of, R. A. EMERSON, 411; Tables of, W. E. CASTLE, 575
- LITTLE, C. C., The Occurrence of Three Recognized Color Mutations in Mice, 335
- LUTZ, FRANK E., Faunal Dispersal, 374
- MCDOWELL, E. C., Piebald Rats and Multiple Factors, 719
- Mammals, Variation, Correlation and Inheritance of Fertility in the, J. ARTHUR HARRIS, 626; Statistical Study of the Number of Nipples in the, J. ARTHUR HARRIS, 696
- MASON, S. L., and D. F. JONES, Inheritance of Congenital Cataract, 119, 751
- Mendelian Inheritance and Blending, W. E. CASTLE, 321
- METZ, CHARLES W., Chromosome Studies on the Diptera, III, Drosophilidae, 587
- Mice, Pink-eyed White, carrying the Color Factor, J. A. DETLEFSON, 46; The Occurrence of Three Recognized Color Mutations in, C. C. LITTLE, 335; of the Color Varieties "Black-and-Tan" and "Red," The Genetic Behavior of, L. C. DUNN, 664
- Mimicry in Butterflies, Poulton on, JOHN H. GEROULD, 184
- MINCHIN, E. A., The Evolution of the Cell, 5, 106, 271
- MORGAN, T. H., The Eugster Gynandromorph Bees, 39
- MULLER, HERMANN J., The Mechanism of Crossing-over, 193, 284, 350, 421
- Multiple Factors and Piebald Rats, E. C. MCDOWELL, 719
- Mutation Theory with Especial Reference to Enothera, HARLEY HARRIS BARTLETT, 513
- Mutationist, Huxley as a, R. RUGGLES GATES, 126
- Mutations in Mice, The Occurrence of Three Recognized Color, C. C. LITTLE, 335
- Newt, the Vermilion-spotted, D. viridescens, Variations in, ALBERT M. REESE, 316
- NICHOLS, JOHN TREADWELL, On Primarily Unadaptive Variants, 565
- Notes and Literature, 53, 184, 374, 502
- Enothera, Mutation Theory with especial reference to, HARLEY HARRIS BARTLETT, 513; neo-Lamarckiana Hybrid of *O. franciscana* Bartlett \times *O. biennis* Linneus, BRADLEY MOORE DAVIS, 688
- Ornamentation in the Killifishes or Toothed Minnows, HENRY W. FOWLER, 743
- Osmotic Pressure of the Blood, The Evolutionary Significance of the, GEORGE G. SCOTT, 641
- PAPANICOLAOU, GEORGE and CHARLES R. STOCKARD, A Further Analysis of the Hereditary Transmission of Degeneracy and Deformities by the Descendants of Alcoholized Mammals, 65, 144
- Parthenogenesis and Sexual Reproduction in Rotifers, D. D. WHITNEY, 50
- PEARL, RAYMOND, Fecundity in the Domestic Powl and the Selection Problem, 89
- PETRUNKOVITCH, ALEXANDER, The Shape of the Sternum in Scorpions as a Systematic and a Phylogenetic Character, 600
- Petunia, Selective Partial Sterility as an Explanation of the Double-throwing Stock and, EDITH R. SAUNDERS, 486; Breeding Experiments with, EDITH R. SAUNDERS, 548
- Piebald Rats and Multiple Factors, E. C. MCDOWELL, 719
- Pigeons, Sex Control and Known Correlations in, OSCAR RIDDLE, 385
- Pink-eyed White Mice, carrying the Color Factor, J. A. DETLEFSON, 46

- Pisum, Inheritance Studies in, ORLAND E. WHITE, 530
- Plant Types, Comparative Rapidity of Evolution in Various, EDMUND W. SINNOTT, 466
- Polymorphism in Butterflies, The Inheritance of Seasonal, JOHN H. GEROULD, 310
- Poulton on Mimicry in Butterflies, JOHN H. GEROULD, 184
- Protozoan Life Cycle, Biology of the, GARY N. CALKINS, 257
- Rapidity of Evolution in Various Plant Types, EDMUND W. SINNOTT, 466
- RASMUSSEN, ANDREW T., Theories of Hibernation, 609
- Rats, Piebald, and Multiple Factors, E. C. McDOWELL, 719
- REESE, ALBERT M., Variations in the Vermilion-spotted Newt, *D. viridescens*, 316
- Reproduction, Sexual, and Parthenogenesis in Rotifers, D. D. WHITNEY, 50
- RIDDLE, OSCAR, Sex Control and Known Correlations in Pigeons, 385
- Rotifers, Parthenogenesis and Sexual Reproduction in, D. D. WHITNEY, 50
- SAUNDERS, EDITH R., On Selective Partial Sterility as an Explanation of the Double-throwing Stock and the Petunia, 486; The Results of Further Breeding Experiments with Petunia, 548
- Scorpions, The Shape of the Sternum in, as a Systematic and Phylogenetic Character, ALEXANDER PETRUNKEVITCH, 600
- SCOTT, GEORGE G., The Evolutionary Significance of the Osmotic Pressure of the Blood, 641
- Selection, Problem and Fecundity in the Domestic Fowl, RAYMOND PEARL, 89; Can it cause Genetic Change?, W. E. CASTLE, 248; and Egg Production, H. D. GOODALE, 479
- Sex, Control and Known Correlations in Pigeons, OSCAR RIDDLE, 385; Inheritance of, in the Grape, W. D. VALLEAU, 554; Problem and Experimental Intersexuality, RICHARD GOLDSCHMIDT, 705
- Shorter Articles and Discussion, 46, 119, 178, 248, 310, 367, 435, 486, 575, 626, 688, 751
- SINNOTT, EDMUND W., Comparative Rapidity of Evolution in Various Plant Types, 466
- Soil Temperature and Soil Moisture, Root Response to and the Distribution of the Cacti, W. A. CANNON, 435
- Statistical, Weighting for Age of Advanced Registry Cows, C. W. HOLDAWAY, 676; Studies of the Number of Nipples in the Mammals, J. ARTHUR HARRIS, 696
- Sternum, The Shape of, in Scorpions, as a Systematic and a Phylogenetic Character, ALEXANDER PETRUNKEVITCH, 600
- STOCKARD, CHARLES R., and GEORGE PAPANICOLAOU, A Further Analysis of the Hereditary Transmission of Degeneracy and Deformities by the Descendants of Alcoholized Mammals, 65, 144
- SURFACE, FRANK M., A Note on the Inheritance of Eye Pattern in Beans and Its Relation to Type of Vine, 577
- Trifolium pratense quinquefolium, H. E. EWING, 370
- Use Inheritance, The Cause of the Belief in, A. L. KROEBER, 367
- VALLEAU, W. D., Inheritance of Sex in the Grape, 554
- Variability under Inbreeding and Crossbreeding, W. E. CASTLE, 178
- Variants, Primarily Unadaptive, JOHN TREADWELL NICHOLS, 565
- Variation, Correlation and Inheritance of Fertility in the Mammals, J. ARTHUR HARRIS, 626
- Variations in the Vermilion-spotted Newt, *D. viridescens*, ALBERT M. REESE, 316
- WALTON, L. B., Gametogenesis in Plants, 498
- WATERMAN, T. T., Evolution of the Chin, 237
- WHITE, ORLAND E., Inheritance Studies in Pisum, 530
- WHITNEY, D. D., Parthenogenesis and Sexual Reproduction in Rotifers, 50
- WOLFE, T. K., Fasciation in Maize Kernels, 306

